

What is claimed is:

- 1 1. An electrode on a substrate of a plasma display panel, comprising:
2 relatively wide pads of the electrode;
3 each pad intersecting a relatively narrow corresponding bus line conductor; and
4 at an intersection of each pad with a corresponding bus line conductor, a line width of the
5 pad being wider than a line width of the bus line conductor and substantially narrower than a line
6 width of a wider section of the pad.
- 1 2. The electrode of claim 1, further comprising:
2 the wider section of the pad having a gradually increasing width.
- 1 3. The electrode of claim 1, further comprising:
2 the wider section of the pad having a gradually increasing width; and
3 the pad having a section of maximum width.
- 1 4. The electrode of claim 1, further comprising:
2 a portion of the electrode between the intersection and the wider section of the pad
3 having a curved profile.
- 1 5. The electrode of claim 1, further comprising:
2 a portion of the electrode between the intersection and the wider section of the pad
3 having a tapered profile.
- 1 6. The electrode of claim 1, further comprising:
2 a portion of the electrode between the intersection and the wider section of the pad
3 having a straight tapered profile.
- 1 7. The electrode of claim 1, further comprising:
2 a portion of the electrode between the intersection and the wider section of the pad
3 having a gradually increasing line width.

- 1 8. The electrode of claim 1, further comprising:
2 a portion of the electrode between the intersection and the wider section of the pad
3 having an abruptly increased line width.
- 1 9. The electrode of claim 1, further comprising:
2 a portion of the electrode between the intersection and the wider section of the pad
3 having a first tapered profile; and
4 the wider section of the pad having a second tapered profile.
- 1 10. The electrode of claim 1, further comprising:
2 the pad having a section of maximum width along a pointed profile.
- 1 11. The electrode of claim 1, further comprising:
2 the pad having a section of maximum width along a curved profile.
- 1 12. The electrode of claim 1, further comprising:
2 the pad having a section of maximum width along a straight profile.
- 1 13. A method of making an electrode on a substrate of a plasma display device, comprising:
2 depositing an electrode material on the substrate;
3 depositing a layer of photo resist material on the electrode material;
4 patterning a beam of electromagnetic radiation with a patterned mask that defines a
5 pattern of electrodes with corresponding bus line conductors intersecting enlarged pads;
6 focusing the patterned beam to irradiate the photo resist material with an irradiated
7 pattern of electrodes with corresponding bus line conductors and enlarged pads interconnected at
8 intersections;
9 washing the patterned photo resist with a developer;
10 selectively etching the electrode material to form a pattern of electrodes on the substrate;
11 firing the substrate and the electrodes thereon, and

12 avoiding a cause for a break in each electrode by making at each intersection a line width
13 of the pad being wider than a line width of the bus line conductor, and substantially narrower
14 than a line width of a wider section of the pad.

1 14. The method of claim 13, further comprising:
2 making the irradiated pattern with an electrode profile streamlined or curved, to eliminate
3 a side cut at a sharp angle in the profile that would cause an electrode break.

1 15. The method of claim 13, further comprising:
2 making the irradiated pattern with the wider section of the pad with a gradually
3 increasing width, so as to further avoid being a cause for a break in the electrode.

1 16. The method of claim 13, further comprising:
2 making the irradiated pattern with a first tapered profile on a portion of the electrode
3 between the intersection and the wider section of the pad; and
4 making the irradiated pattern with a second tapered profile on the wider section of the
5 pad.

1 17. The method of claim 13, further comprising:
2 making the irradiated pattern with a section of maximum width along a curved profile of
3 each pad.

1 18. The method of claim 13, further comprising:
2 making the irradiated pattern with a section of maximum width along a pointed profile of
3 each pad.

1 19. The method of claim 13, further comprising:
2 making the irradiated pattern with a section of maximum width along a flat profile of
3 each pad.

1 20. The method of claim 13, further comprising:

- 2 making the irradiated pattern with an abrupt line width change between the intersection
- 3 and the section of maximum width.
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